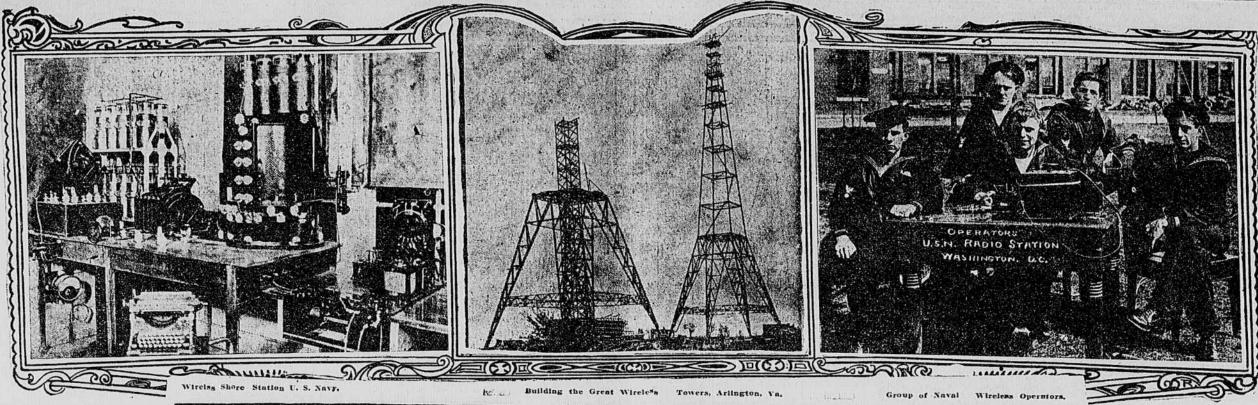
Commercial Wireless Companies Will Be Made to Toe the Mark



BY JOHN ELFRETH WATKINS.

BY JOHN ELFRETH WATKINS,
Washington, D. C., May 10, 1912.

The terrible Titanic tragedy will
confer one benefit upon humanity. It will emancipate the
wireless telegraph from the arbitrary
power of commercialism and place it
under strict governmental regulation,
assuring eternal rigilance for distress
calls at sea, absolute precedence for
such signals for help and better equipment for their utterance.

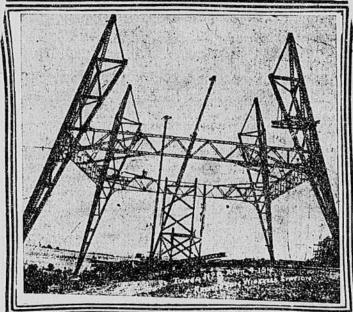
The Congress of the United States

toll of old occan's most monstrous tragedy.

New legislation for the "regulation of radio communication" has lately been reported favorably to both houses of Congress. It is carried in a bill carefully framed by the wireless experts of the navy, army and Department of Commerce and Labor, it is designed to put a quietus upon the long-threatening mono oly of all the powerful wireless interests, not only of America, but of the world; to give distress calls from the sea an absolute right of way; to prevent the interference of commercial messages with official and emergency messages.

All Operators to Be Licensed.

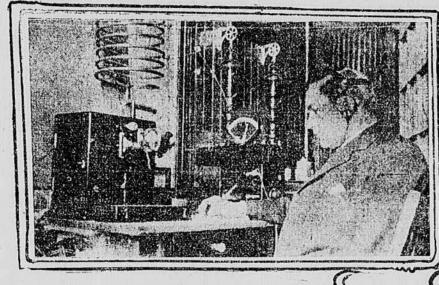
The first step toward giving the



hold of wave length when certain narrow bill adopts for America. It will be wireless stations in our ter- ranges will scient their purposes just remembered that the Titanie's opera-

ritory or upon our ships will be a strict requirement that each station and all of its operators must obtain a federal license; also that all operators must be admerican citizens.

To prevent interference with government of distress messages cach commercial station will be limited by its license to certain wave lengths for carrying its messages, also to certain hours of work. Under the existing system operators send out their dots and denotes meters in reference with government or distress messages. Also to certain hours of work. Under the existing system operators send out their dots and denotes of the most important provisions of the bill. A wave length of 300 meters in the first minds as meaning "save our ship," carrying its messages, also to certain hours of work. Under the existing system operation, day and night, and can be adjusted as a first ment turned to maintain denote being very nearly a year. To get clear results rending and receiving instruments must be adjust for a training marrow bill adopts for America. It will not require used both signals while she was going down. The "S. O. S." has been adopted by other countries because of the bill. A wave length of 300 meters in the first have limited by its like three dots, three dashes and three dots, three dots, three dashes and three dots, three dashes and three dots, three dots, three dashes and three dots, and the grant provisions. To prevent date the mark mark the fill and prevented to the same limits of wards and reduced to maintain extrements must be adjust to such a station of the bill. A wave length of the prevented to the same limits of wards and three dots, three dots, three dashes and three dots, three dots, three dots, three dashes and three dots, three dots, three dots, three dots, three dots, three dots, three dashes and three dots, three d



Give ts Wireless Supremary.

These protected points are to be especially a great chain of "high power" radio stations, which will give America wireless dominton over the seas. The key to this vast system will be a group of glant towers already bristling above the hills of Arlington, Va., in full view of the National Capital's avenues. The tailest of these steel structures will rise \$50 feet from tha ground, which means that from base to pinnacle it will be \$5 feet higher than the Washington Monument itself, and as the hill which this steel steeply

avenues. The tallest of these steel structures will rise \$56 feet from the ground, which means that from base to pinnacle it will be \$5 feet higher than the Washington Monument itself, and as the hill which this steel steeply will crown is higher than the stately monolith dedicated to the Father of his Country the wireless reach of this bigipower station will be vastly greater than could be obtained from the monument's aluminum apex.

By all odds, this will be the tallest tower ever built for wireless purposes in any part of the world. It will be 150 feet square at the base and between its spreading legs could easily be built four blocks of average city residences, allowing seven houses to the block. To the east of this colossus and at equal distances therefrom will stand two similar pinnacles of steel, each \$65 feet high and 120 feet square at the base, and the group when completed will look very like the Effit tower, although, acting together, they will have far greater wirelsss reach than the famed Paris giant, lately converted into a wireless station.

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where complete the electrical speed of each of the lower tower will also be able to the complete the complete

Range of Distress Signals.

He will be able to distribute distress cails mong all ships within 2,000 miles of one of these high-power stations at night, or within 1,000 miles during the day. He will be unable, however, to hear distress calls zent to him by ships farther away than 100 miles at night or 200 miles during miles at night or 200 miles during

to him by ships farther away than 100 miles at night or 200 miles during daylight. But he will have apward of fifty small wireless stations and countless ship stations co-operating with these high-power wireless -plants, and the former will relay emergency messages to the nearest group of giant towers.

These differences in range for night and day are due to the fact that the sunlight greatly absorbs the wireless electric waves. The government experts regard the natural conditions surrounding the Titanic as especially favorable to a long wireless range on the night she sank, not only because it was dark, but because it was darkness, increases the reach of these fickle dots and dashes.

Hearing the Grass Grow.

fickle dots and dashes.

Hearing the Grass Grow.

As old Mother Earth puts on more and more of her spring attire the reach of wireless messages shortens. In their laboratory, at Washington, the cavy's experts are now experimenting to accurately measure this effect of increasing foliage and vegetation. While the summer is coming on they are receiv'ng test messages sent at regular intervals from Philadelphia, Annapolis and Norfolk, and with delicate instruments are noting the gradual weakening of the electric current. Thus, you might say, they

The Army of Constipation Is Growing Smaller Every Day.

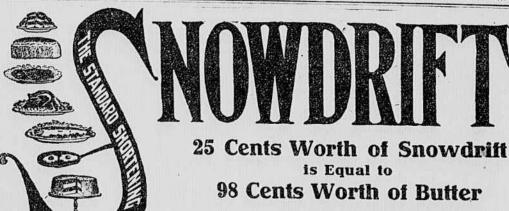
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